

## Method for Interference Suppression for TDMA- and/or FDMA Transmission

### Abstract

- 5 A method for interference suppression for TDMA and/or FDMA transmission, which at least approximately can be described as pulse amplitude modulation, with an arbitrary number of receive antennas. The method comprises filtering of at least one complex-valued received signal  $r_i[k]$  of one receive antenna with a filter with complex-valued coefficients  $f_i[k]$  for generation of at least one output signal  $y_i[k]$ ,  
 10 forming at least one projection of at least one output signal  $y_i[k]$  onto a vector  $\mathbf{p}_i$  which is assigned to this output signal  $y_i[k]$ , summing of a majority, especially all of the output signals  $y_i[k]$  for forming a sum signal  $s[k]$ , and feeding the sum signal  $s[k]$  into a device for detection, especially equalization. A system for interference suppression for TDMA and/or FDMA transmission is also disclosed.